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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,100	10/02/2003	Hyoung-Jo Jeon	1572.1153	8392

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EXAMINER

SMITH, JEFFREY S

ART UNIT	PAPER NUMBER
2635	

DATE MAILED: 11/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/676,100

Applicant(s)

JEON ET AL.

Examiner

Jeffrey S. Smith

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The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 08/05, 05/05, 10/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese application no. 10-257084, submitted in the IDS, which was published March 31, 2000 by Atsushi et al. ("Atsushi").

For claim 1, Atsushi discloses an image displaying apparatus 16 which displays an image, an image taking apparatus (2, 6) to take the image displayed in the image displaying apparatus, an optical characteristic changing apparatus 4 provided between the image taking apparatus and the image displaying apparatus, which changes optical characteristics of the displayed image; a lightpath changing apparatus (10) which changes a lightpath of the displayed image, and an image processor 14 which receives a plurality of images (VA, VB') having respective changed lightpaths from the image taking apparatus and generates a processed image with a moire' removed by correcting or superposing the plurality of images (see figure 1, see also figure 16).

For claim 2, Atsushi discloses a position controller 15 which controls the lightpath changing apparatus to change the lightpaths of the respective images.

For claim 3, the position controller moves the displaying apparatus, the image taking apparatus takes an image of the displayed image at each predetermined position, and the image processor generates the processed image with the moire'

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removed by superposing the plurality of the images taken at the plurality of predetermined positions.

For claim 4, the position controller moves the lens ("optical characteristic changing apparatus"), the camera ("image taking apparatus"), and the lightpath changing apparatus relative to the image as shown in Figure 15.

For claims 5 and 6, Atsushi has one of a mirror and a prism (element 10 of figure 1).

For claims 7-10, the moire' is removed by correcting a shape or a brightness of each image (see paragraph 94).

For claim 11, taking respective images, correcting respective images, and generating a processed image is performed by the device of figure 1 and also by the device of figures 16 and 17.

For claim 12 changing a lightpath is shown in Figure 15.

For claim 13, moving the image displaying apparatus is shown in Figure 1.

For claims 14-16, correcting a shape or brightness is discussed in paragraph 94.

For claim 17, taking a first image, taking a second image, and superposing the first and second images is shown in Figure 1.

For claim 18, adjusting an aspect ratio is performed by image processor 14 as shown in Figure 1.

For claim 19, adjusting brightness is performed by image processor 14.

For claims 20-22, taking an additional image is performed by the devices shown in Figures 1, 16, and 17. Repeating these tasks and superposing is also performed by each of these devices.

For claim 23, taking a plurality of images, adjusting brightness, and superposing at least two images is performed by the devices of Figures 1, 16 and 17.

For claims 24 and 25, Figure 1 shows a camera, a motion control system, an image processor and an optical scanner.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Smith whose telephone number is 571 270-1235. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on 571 270-1245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSS

JSS

November 17, 2006



MARVIN LATEEF
SUPERVISORY PATENT EXAMINER